718

SERVICE MANUAL

PORTABLE RADIO

SANYO

RP 8260

(HUNGARY)

SPECIFICATIONS

Frequency ranges:	MW 525 – 1605 kHz	Output power:	Maximam 1300 mW
	SW1 2.3 – 7.0 MHz		Undistorted 800 mW
	SW2 7.0 – 21.0 MHz	Transistor:	11
	FM 62 – 78 MHz	Diode:	16
Intermediate:	MW/SW 460 kHz	Power source:	DC 4.5 for 1.5V "UM-1" Size x 3
	FM 10.7 MHz		AC 220V, 50Hz
Sensitivity:	MW 100μV/m	Current consumption:	No signal 30 mA
(for 50mW output)	SW1 100μV/m	Speaker:	92 mm, 8 ohm
	SW2 10μV	Dimensions:	257mm(W) x 162mm(H) x 75mm(D)
	FM 3μV		Approx.
		Weight	Approx. 1.5 kg

NOTE: Specifications are subject to change without notice.

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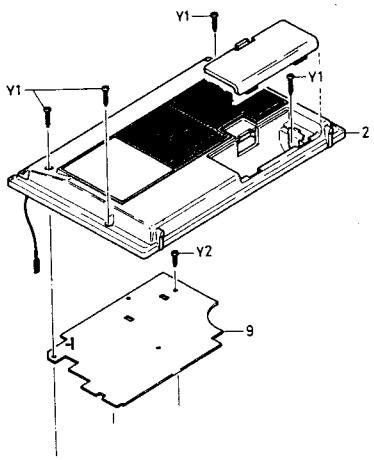
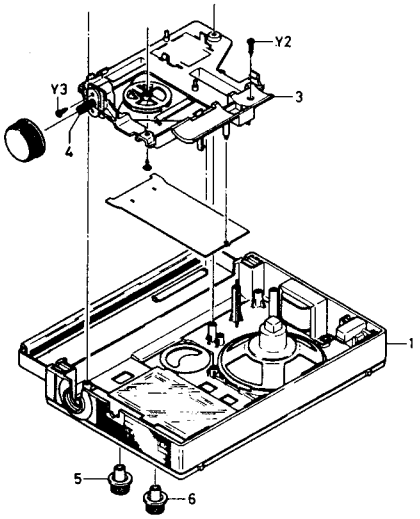
CABINET & CHASSIS DISSASSEMBLY

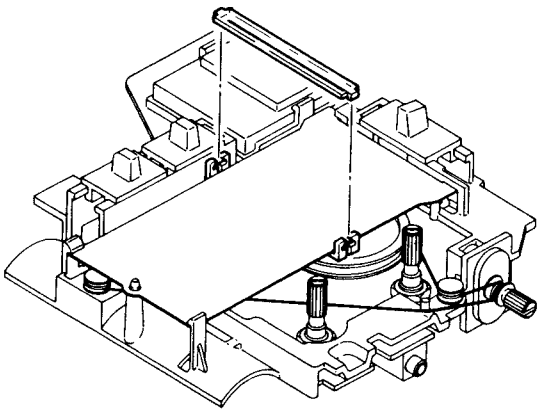
1. Remove the four screws Y1 (tapping screw pan head 3 x 20 mm) attaching the BACK LID (2) to the CABINET (1).
2. Unplug the antenna cord from the antenna socket (9) on the Printed Çircuit Board to separate the BACK LID (2).
3. Detach the VOLUME KNOB (5) and the TONE KNOB (6).
4. Remove the two screws Y2 (tapping screw pan head 16 mm) attaching the CHASSIS (3) to the CABINET (1).
   The CHASSIS with P.C.Board can be separated.
5. Detach the POINTER (7) and DIAL SCALE (8).
6. Remove the one screw Y3 (tapping screw pan head 3 x 10 mm) for disassembling the TUNING SHAFT ASSEMBLY (4) from the CHASSIS (3).

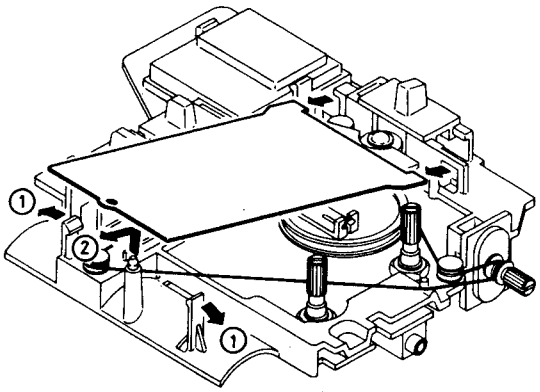


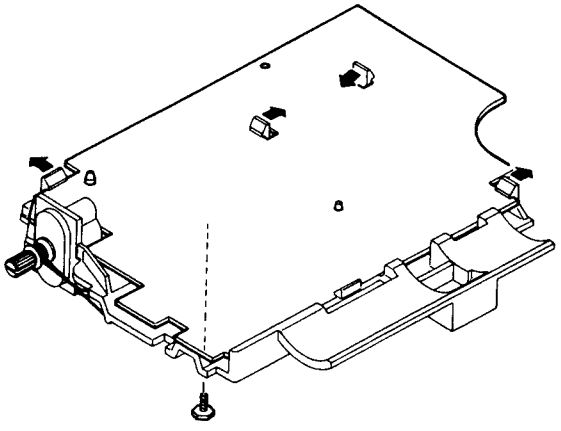


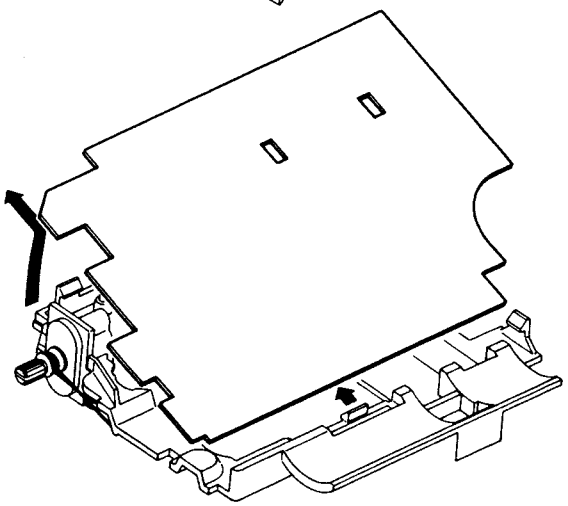
P.C.B. DISASSEMBLY

Before removing the screws from the dial drum, secure it with string so that the dial rope will not come off adversely.



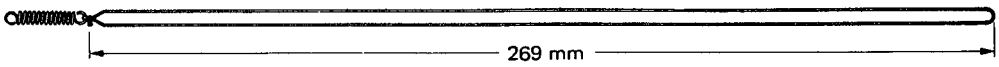


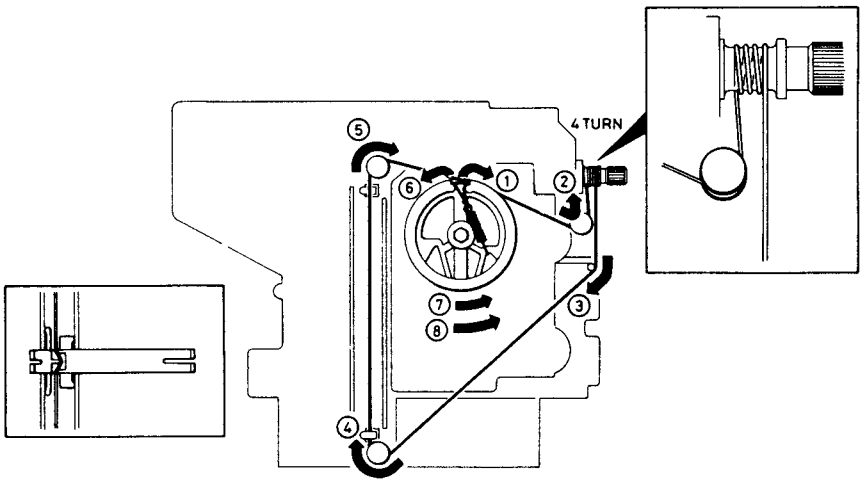




DIAL CORD STRINGING

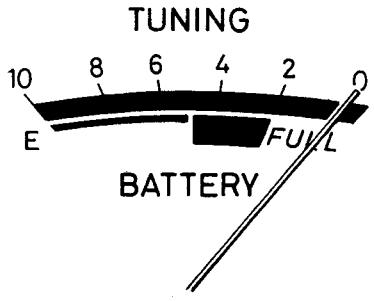
1. Prepare dial cord and tension spring as shown bellow.
2. First place the drum in such a position as it provides a minimum capacitance for tuning gang.
   Hook a free end of the spring to the drum and thread the cord as shown by starting from No. 1 through No. 8.
   Please give if four-turns around a tuning shaft at No. 2.
   Pass it through No. 3 & 4, and hold it temporarily at No. 5.
   Fit the other end No. 8 of the cord two turns in the arrow direction around the drum and finally.





METER ADJUSTMENT SPECIFICATION

1. **Adjustment of battery meter**
   1-1. Set band selector to MW.
   1-2. Adjust with no signal at "zero" input.
   1-3. Turn variable resistor R330 (2KB) to adjust needle to full scale (see sketch).



   1-5. After the adjustment, make sure the needle registers in the green range at 3.2 V DC.

2. **Checking of tuning meter**
   2-1. Set supply voltage to 4.5 V DC.
   2-2. Set band selector to FM, and tune in to 70 MHz, 40 dB by means of signal generator.
   2-3. Make sure the maximum meter swing coincides with the maximum output.
   2-4. If out of agreement, develop the output to maximum and adjust the meter swing to the maximum by turning the IF Transformer T303.
   2-5. In case an extreme deviation is found at item 2-3, readjust V-curve and S-curve.

ALIGNMENT PROCEDURES

GENERAL ALIGNMENT CONDITIONS

1. The position of volume control is at maximum position.
2. Signal input must be kept as low as possible to avoid overload.
3. Use an output meter of the highest possible sensitivity.
4. Standard modulation is 400Hz at 30% amplitude (for AM) and 22.5 kHz deviation (for FM).

MW BAND – Band selector switch in MW position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Loop Antenna	460 kHz	Lowest End	Across Speaker	IFT T305, 306, 307	Adjust for Maximum
2	Same	505 kHz	Lowest End	Same	Osc. Coil L102	Same
3	Same	1670 kHz	Highest End	Same	Osc. Trim CT104	Same
4	Same	600 kHz	600 kHz	Same	Ant. coil L109a	Same
5	Same	1400 kHz	1400 kHz	Same	Ant. Trim CT102	Same

Repeat steps 2 thru 5 to obtain maximum sensitivity.

SW1 – Band selector switch in SW1 position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Same	2.5 MHz	Lowest End	Same	Osc. Coil L111	Adjust for Maximum
2	Same	7.3 MHz	Highest End	Same	Osc. Trim VCT-4	Same
3	Same	2.5 MHz	2.5 MHz	Same	Ant. Coil L109b	Same
4	Same	6.5 MHz	2.5 MHz	Same	Ant. Trim VCT-2	Same

Repeat steps 1 thru 4 to obtain maximum sensitivity.

SW2 BAND – Band selector switch in SW2 position

Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Same	6.8 MHz	Lowest End	Same	Osc. Coil L110	Same
2	Same	22.7 MHz	Lowest End	Same	Osc. Trim CT103	Same
3	Same	8.0 MHz	8.0 MHz	Same	Ant. coil L108	Same
4	Same	21.0 MHz	21.0 MHz	Same	Ant. Trim CT101	Same

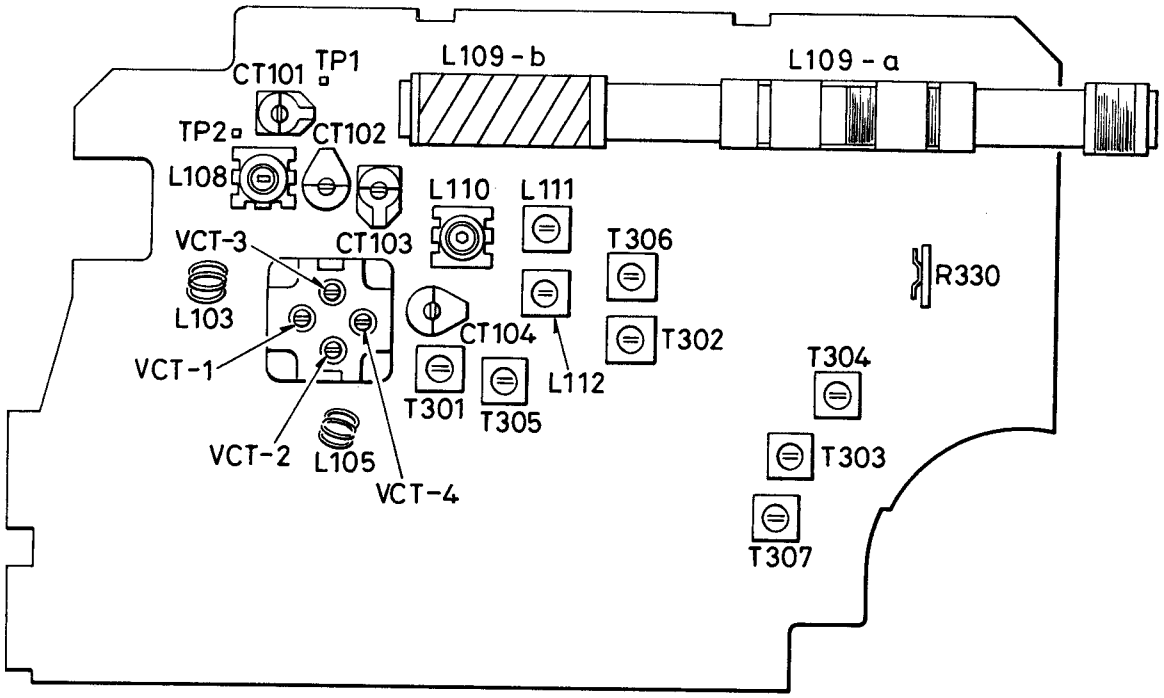
Repeat steps 1 thru 4 to obtain maximum sensitivity.

FM BAND – Band selector switch in FM position

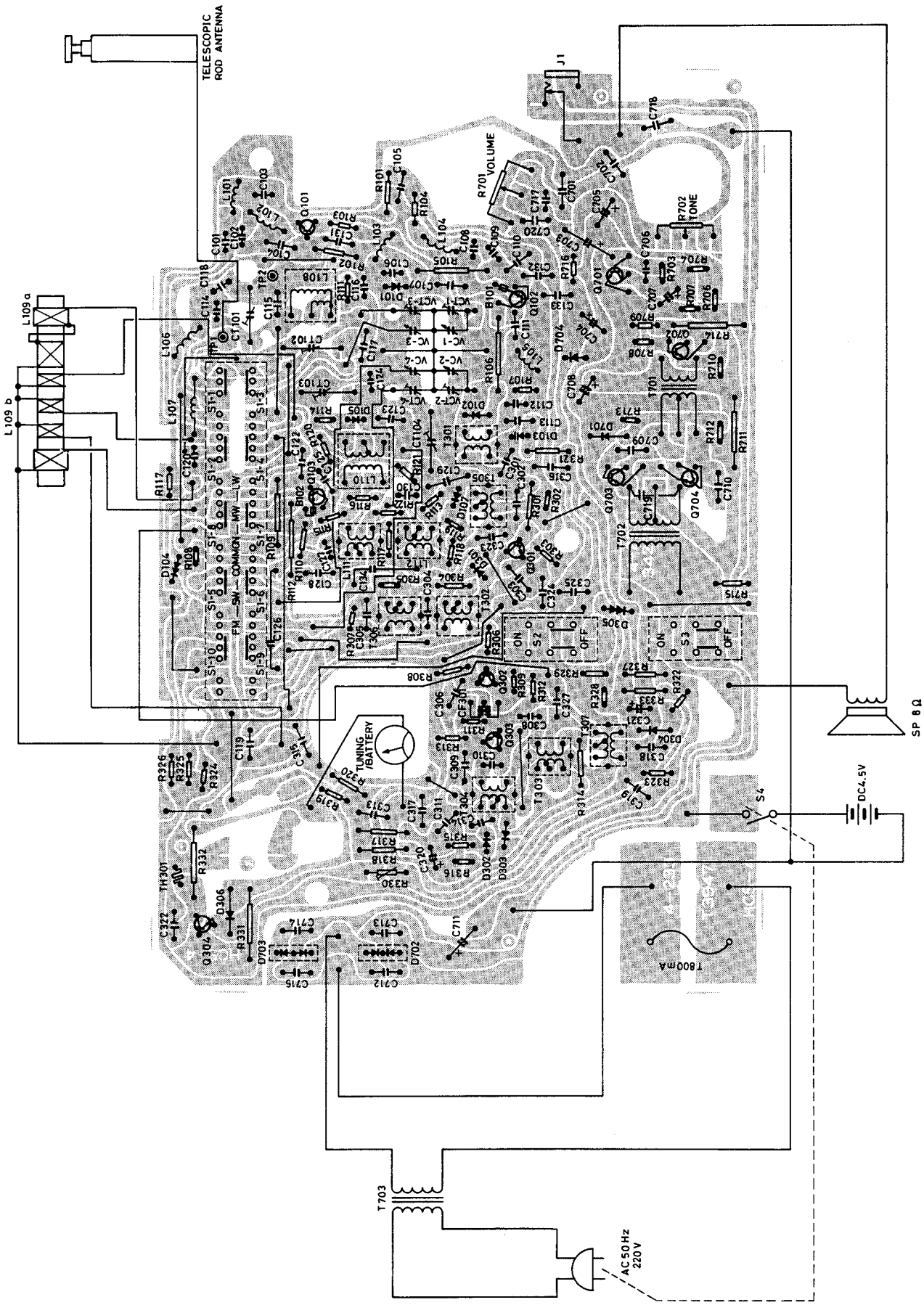
Step	Connection of Signal Generator	Input Signal Frequency	Dial Setting of Radio	Connection of Meter or Oscilloscope	Adjust	Remarks
1	Connect Sweep Marker Generator to VCT2, Ground	10.7 MHz	Lowest End	Connect scope input cable thru network to R314, Ground	IFT T301, 302, 303	Adjust for maximum sensitivity with symmetrical curve.
2	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to R319, Ground	IFT T304	Adjust for sym mertrical "S" curve.
3	Connect Signal Generator to TP1, TP2	61 MHz	Lowest End	Connect V.T.V.M. across speaker	Osc. coil L105	Adjust for maximum
4	Same	79 MHz	Highest End	Same	Osc. Trimmer VCT2	Same
5	Same	62 MHz	62 MHz	Same	RF Coil L103	Same
6	Same	78 MHz	78 MHz	Same	RF Trimmer VCT1	Same

Repeat steps 3 thru 6 to obtain maximum sensitivity.

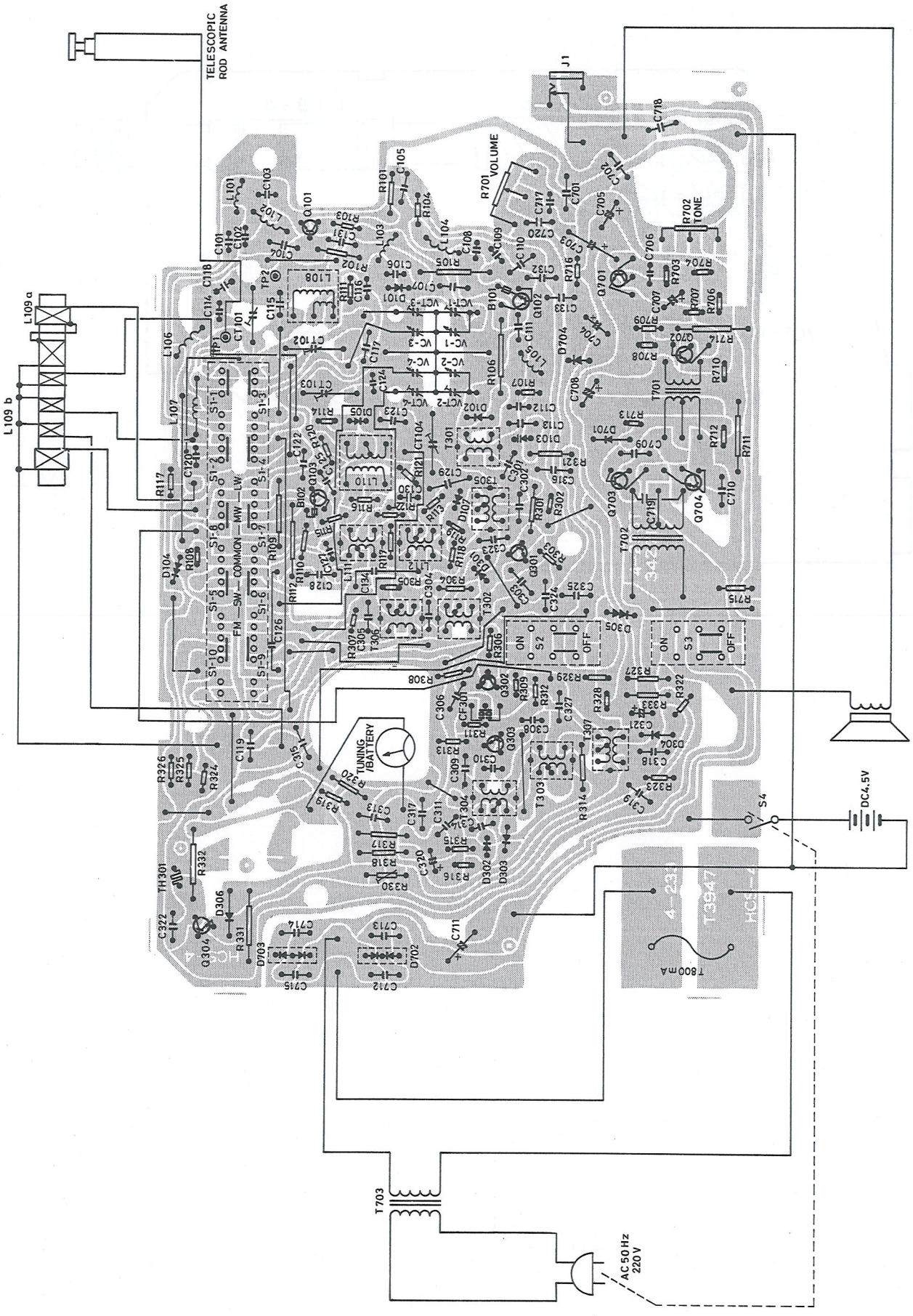
PARTS LOCATION



WIRING DIAGRAM

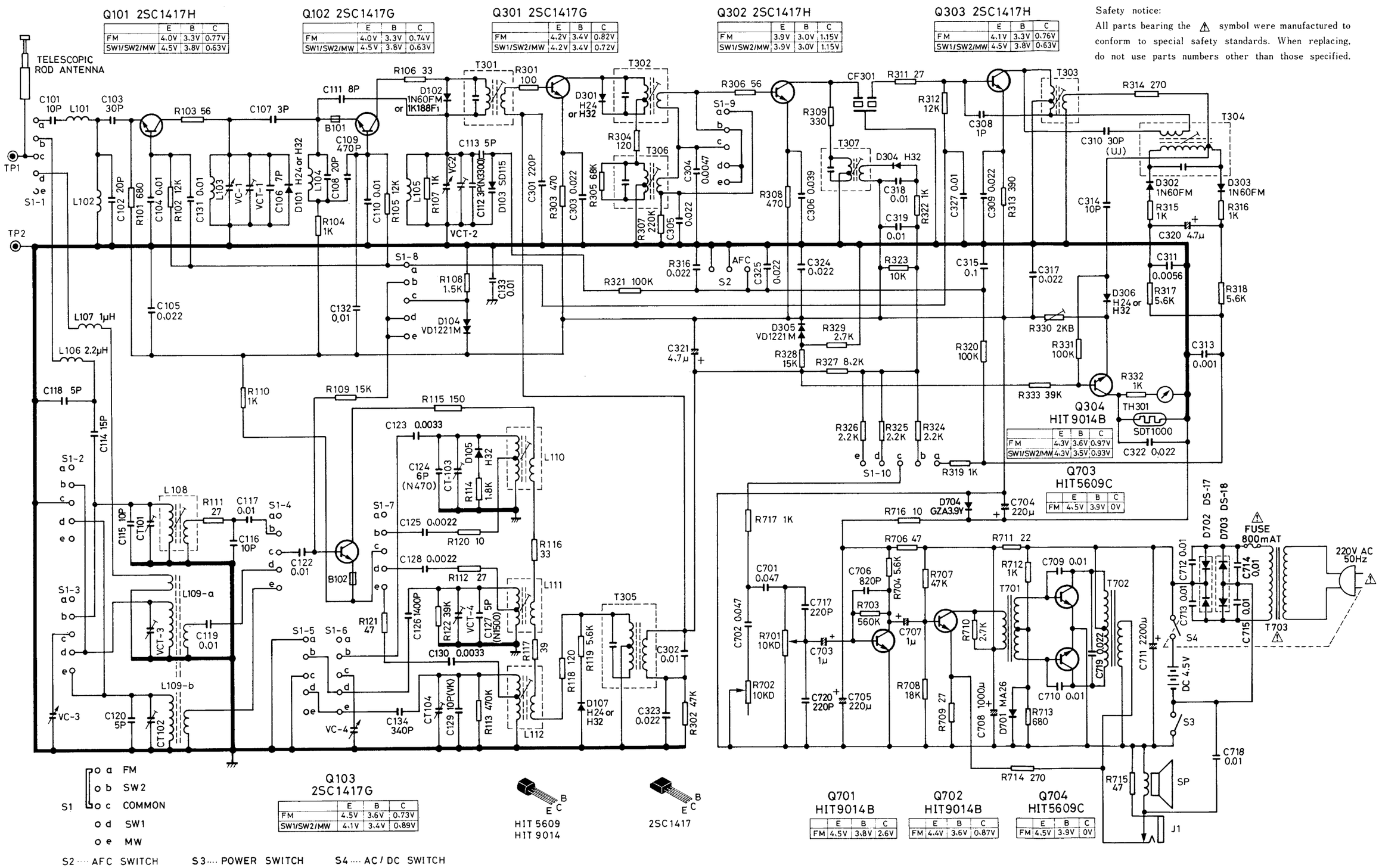


WIRING DIAGRAM



SCHEMATIC DIAGRAM

Safety notice:
All parts bearing the ⚠ symbol were manufactured to conform to special safety standards. When replacing, do not use parts numbers other than those specified.



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKINGS PARTS			
	141-6-410T-17011	Instruction Manual	1
	141-6-132T-92813	Individual Carton	1
	141-6-144T-50700	Pad	1
	141-6-144T-50800	Pad	1
	141-6-231T-25400	Polyethylen Bag, Set	1
	141-6-231T-10250	Polyethylen Bag, Power Cord	1
CABINET & CHASSIS PARTS			
	141-0-111T-37207	Cabinet Assembly	1
	141-0-126T-25913	Back Lid Assembly	1
	141-0-128T-13101	Battery Lid Assembly	1
	141-2-447T-25800	Cushion, 15 x 15 x 2 mm, for Speaker	1
	141-2-447T-00800	Cushion, for Back Lid	2
	141-0-171T-14500	Handle Assembly	1
	141-2-271T-14700	Bracket Handle	2
	141-2-163T-54900	Rotary Knob, Tuning	1
	141-2-163T-55000	Rotary Knob, Volume & Tone	2
	141-0-311T-30000	Chassis Assembly	1
	141-0-566T-04610	Tuning Shaft Assembly	1
	141-2-146T-19208	Dial Scale	1
	141-2-164T-23600	Slide Knob, Band	1
	141-2-164T-23700	Slide Knob, Power	1
	141-2-164T-23701	Slide Knob, AFC	1
	141-2-538T-09700	Drum	1
	141-2-513T-04300	Carriage	1
	141-2-511T-14500	Pointer	1
	141-2-340T-00100	Dial Rope, 0.3 ϕ x 700 mm	1
	123-2-481R-00600	Spring Coil	1
	141-2-447T-00801	Cushion, Dial Scale mrg.	2
	141-2-447T-62000	Cushion, meter mtg.	3
	141-2-447T-00801	Cushion, Dial Scale mtg.	2
FIXING PARTS			
		Tapping Screw (WH), 3 x 8 mm	2
		Tapping Screw, 3 x 10 mm	1
		Pan Head Tapping Screw, 3 x 8 mm	1
		Pan Head Tapping Screw, 3 x 20 mm	4
		Pan Head Tapping Screw, 3 x 16 mm	2
		Pan Head Screw, 2.6 x 4 mm	2
		Hexagon Head Bolt, 2.6 x6mm	1
		Pan Head Tapping Screw, 3 x 10 mm	1
		Washer, 3 x 6.5 x 0.45 mm	1
ELECTRICAL PARTS			
	141-4-233T-34271	P.C.B. Assembly, Radio	1
	141-4-233T-39471	P.C.B. Assembly, Fuse	1
	4-300T-21100	Power Transformer	1
S4	4-235T-26971	Socket, AC/DC	1
	4-243T-77981	Power Cord	1
	4-151T-28671	Speaker, 92 mm, 8 ohm	1
	4-511T-08094	Meter, TUNING/BATTERY	1
	4-244T-80500	Rod Antenna	1
	123-2-472R-11100	Lug	1
	4-235T-34600	Socket, for FM ANT	1
	141-2-464T-08700	Fixer	2
R701, 702	4-222T-68271	Variable Resistor, 10K ohm, "D"	2
R330	4-222T-41073	Semi-fixed Variable Resistor	1
	4-224T-12200	Tuning Capacitor	1
	141-2-381T-04200	Bracket Fuse	2
	4-237T-00171	Terminal	2
	4-234T-01971	Fuse, 800 mAT	1

Ref. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
CT101,103	4-224R-01300	Trimmer	2
CT102,104	4-224R-01300	Trimmer	2
J1	4-235R-14000	Socket, Earphone	1
S1	4-231T-66371	Slide Switch, Band	1
S2,3	4-231T-81500	Slide Switch, Power, AFC	2
	4-237T-00171	Terminal	11
B101,102	123-2-471R-10400	Core	2
T701	4-254T-10900	Input Transformer	1
T702	4-254T-15200	Output Transformer	1
Q101,302, 303		Transistor, 2SC1417	3
Q102,103, 301		Transistor, 2SC1417	3
Q304,701, 702		Transistor, HIT9014	3
Q703,704		Transistor, HIT5609	2
D101,107, 301,306		Diode, H32	4
D102		Diode, 1N60	1
D302,303		Diode, 1N60 FM	2
D103		Diode, SD115	1
D104,305		Varistor, VD1221M	2
D105,304		Diode, H32	2
D701		Varistor, MA26	1
D702		Diode, DS17	1
D703		Diode, DS18	1
D704		Zener Diode GZA3.9Y	1
TH301		Thermister, SDT1000	1
L101	4-265R-05010	VHF Coil	1
L102,104,	4-265R-12610	VHF Coil	2
L106	4-253T-13200	Filter	1
L103	4-265R-01510	VHF Coil	1
L105	4-265R-01410	VHF Coil	1
L107	4-253R-11100	Choke Coil	1
L108	4-257T-43010	Antenna Coil, SW2	1
L109	4-257T-49901	Antenna Coil, MW/SW1	1
L110	4-258T-30110	Oscillator Coil, SW2	1
L111	4-258T-37740	Oscillator Coil, SW1	1
L112	4-258T-37810	Oscillator Coil,MW	1
T301	4-256R-20810	IFT	1
T302	4-256R-15810	IFT	1
T303	4-256R-15110	IFT	1
T304	4-256R-02310	IFT	1
T305,306	4-256R-00110	IFT	2
T307	4-256R-00210	IFT	1
CF301	4-256T-80400 4-256T-80471 4-256T-80472 4-256T-80473 4-256T-80474	} or IF Filter, FM	1
RESISTORS			
All Resistors are Carbon P-type ±10% unless otherwise noted.			
R716,120		10 ohm	2
R112		27 ohm	1
R711		22 ohm	1
R111,709		27 ohm	2
R106,116		33 ohm	2
R117		39 ohm	1
R706,715, 121		47 ohm	3
R103,306		56 ohm	2
R301		100 ohm	1
R118,304,		20 ohm	2
R115		150 ohm	1
R314,714		270 ohm	2
R309		330 ohm	1
R313		390 ohm	1
R303,308		470 ohm	2
R101,713		680 ohm	2
R104,110, 315,316, 319,322, 332,717, 712,107		1K ohm	10
R108		1.5K ohm	1
R114		1.8K ohm	1
R324,325, 326		2.2K ohm	3

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
	RESISTORS		
R329,710		2.7K ohm	2
R119,317, 318,704		5.6K ohm	4
R327		8.2K ohm	1
R323		10K ohm	1
R102,105 312		12K ohm	3
R109,328		15K ohm	2
R708		18K ohm	1
R302,707		47K ohm	2
R305		68K ohm	1
R320,321, 331		100K ohm	3
R122,333		39K ohm	2
R307		220K ohm	1
R703		560K ohm	1
R113		470K ohm	1
	CAPACITORS		
C112		Ceramic 3pF ±0.25pF (N3300) 50V	1
C308		Ceramic 1pF ±0.25pF 50V	1
C107		Ceramic 3pF ±0.25pF 50V	1
C113,118, 127,120		Ceramic 5pF ±0.25pF 50V	4
C111		Ceramic 8pF ±0.5pF 50V	1
C124		Ceramic 6pF ±0.5pF (N470) 50V	1
C129		Ceramic 10pF ±0.5pF (N1000)	1
C314,101, 115		Ceramic 10pF ±0.5pF 50V	3
C106		Ceramic 7pF ±0.5pF 50V	1
C114		Ceramic 15pF ±5% 50V	1
C102,108		Ceramic 20pF ±5% 50V	2
C103		Ceramic 30pF ±5% 50V	1
C310		Ceramic 30pF ±5% 50V	1
C116		Ceramic 10pF ±5% 50V	1
C301,717, 720		Ceramic 220pF ±10% 50V	3
C109		Ceramic 470pF ±10% 50V	1
C706		Ceramic 820pF ±10% 50V	1
C313		Ceramic 0.001µF ±10% 50V	1
C304		Ceramic 0.0047µF ±10% 50V	1
C311		Ceramic 0.0056µF ±10% 50V	1
C110,119, 122,131, 132,133, 327,712, 713,714, 715,718		Ceramic 0.01µF +80–20% 50V	12
C105,305, 309,316, 322		Ceramic 0.022µF +80–20% 50V	5
C134		Styrol 340pF ±5% 50V	1
C126		Styrol 1400pF ±5% 50V	1
C123		Styrol 0.002µF ±5% 50V	1
C104,302, 318,319, 709,710,		Semi conductive, 0.01µF ±20% 25V	6
C303,317, 323,324, 325		Semi conductive, 0.022µF ±20% 25V	5
C306,719		Semi conductive, 0.039µF ±20% 25V	2
C701,702		Semi conductive, 0.047µF ±20% 25V	2
C315		Semi conductive 0.1µF ±20% 12V	1
C128,125		Semi conductive 0.0022µF ±20% 50V	2
C130,123		Semi conductive 0.003µF ±20% 25V	2
C703,707		Electrolytic, 1µF 25V	2
C320,321		Electrolytic 4.7µF 25V	2
C704,705		Electrolytic 220µF 10V	2
C708		Electrolytic 1000µF 10V	1
C711		Electrolytic 2200µF 10V	1

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